UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/538,745	06/14/2005	Gordon Feingold	P149-US-01	4284

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EXAMINER
BARBEE, MANUEL L

ART UNIT	PAPER NUMBER
2857	

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06/05/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

PTOL-90A (Rev. 04/07)

<table>
<tr><td rowspan="2">Office Action Summary</td><td colspan="2">Application No.

10/538,745</td><td colspan="2">Applicant(s)

FEINGOLD ET AL.</td></tr>
<tr><td colspan="2">Examiner

Manuel L. Barbee</td><td>Art Unit

2857</td><td></td></tr>
</table>

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *13 March 2007*.

2a)☐ This action is **FINAL**.   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *249-298* is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☒ Claim(s) *249-251,261,274-276 and 286* is/are allowed.

6)☒ Claim(s) *252-260,262,273,277-285 and 287-298* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All   b)☐ Some * c)☐ None of:

        1.☐ Certified copies of the priority documents have been received.

        2.☐ Certified copies of the priority documents have been received in Application No. _____.

        3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☐ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☒ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date *3/13/07*.

4)☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

5)☐ Notice of Informal Patent Application

6)☐ Other: _____ .

DETAILED ACTION

Claim Rejections - 35 USC § 103

1.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

2.   Claims 252-257 and 277-282 rejected under 35 U.S.C. 103(a) as being

unpatentable over US Patent No. 5,289,385 to Grandone (Grandone) in view of US

Patent Application Publication 2003/0200111 to Damji (Damji) and US Patent

Application Publication 2005/0250211 to Reinhardt et al. (Reinhardt).

With regard to an automated sample processing system using robotic sample

process functions and scheduling a plurality of sample process operations, as shown in

claims 252 and 277, Grandone teaches a biological sample analyzer with robotic

pipette-booms and scheduling sample operations (col. 5, line 66 - col. 6, line 36; col. 7,

lines 36-58; col. 10, lines 18-53). With regard to capturing and storing important details

of process operations, as shown in claims 252 and 277, Grandone teaches outputting

data analysis results to data storage (col. 7, lines 40-58). With regard to a plurality of

scheduled sample process operations, as shown in claims 252 and 277, Grandone

teaches more than one scheduled operation (col. 10, line 18 - col. 11, line 10).

Grandone does not teach monitoring historical usage information and advance

notifying at least one person, as shown in claims 252 and 277. Damji teaches

monitoring the historical usage of materials and allowing an user to order based on the

historical information (par. 54). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the analyzer, as taught by Grandone, to include monitoring historical usage, as taught by Damji, because then supply chains would have been more efficient (Damji, pars. 2-4).

Grandone does not teach processing at sample arranged on a slide, as shown in claims 252 and 277. Reinhardt teaches slide processing operations (Abstract). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the analyzer, as taught by Grandone, to include slide processing, as taught by Reinhardt, because then slides would have been processed in a consistent manner with high throughput (par. 9).

Grandone does not teach monitoring user statistical information, as shown in claims 253 and 278. Damji teaches monitoring which sizes are most commonly used (par. 54). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the analyzer, as taught by Grandone, to include monitoring statistical data, as taught by Damji, because then supply chains would have been more efficient (Damji, pars. 2-4).

Grandone does not teach notifying at least one person of a predictive need, monitoring predictive usage information, or utilizing order lead time information, as shown in claims 254-256 and 279-281, and notifying an operator, as shown in claims 257 and 282. Damji teaches monitoring the historical usage of materials and allowing an user to order based on the historical information (par. 54). The historical information is a prediction of usage. It would have been obvious to one of ordinary skill in the art at

the time the invention was made to modify the analyzer, as taught by Grandone, to include monitoring historical usage, as taught by Damji, because then supply chains would have been more efficient (Damji, pars. 2-4).

3.   Claims 258, 259, 262, 283, 284 and 287 are rejected under 35 U.S.C. 103(a) as being unpatentable over Grandone in view of US Patent Application Publication 2003/0163031 to Madden et al. (Madden) and Reinhardt.

With regard to an automated sample processing system using robotic sample process functions and scheduling a plurality of sample process operations, as shown in claims 258 and 283, Grandone teaches a biological sample analyzer with robotic pipette-booms and scheduling sample operations (col. 5, line 66 - col. 6, line 36; col. 7, lines 36-58; col. 10, lines 18-53). With regard to capturing and storing important details of process operations, as shown in claims 258 and 283, Grandone teaches outputting data analysis results to data storage (col. 7, lines 40-58). With regard to a plurality of scheduled sample process operations, as shown in claims 254 and 283, Grandone teaches more than one scheduled operation (col. 10, line 18 - col. 11, line 10).

Grandone does not teach establishing a network and accepting a prompt from a user to establish a remote access connection between the slide processing network and a remote location and to display at least a portion of the important details of the sample process operations at the remote location, as shown in claims 258 and 283. Madden teaches using a network to transfer sample results to a database that is accessible to remote users (pars. 19, 30 and 32). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the analyzer, as taught by

Grandone, to include a remote network connection for transferring data, as taught by Madden, because then analysis of results by other professionals would have been facilitated (Madden, pars. 2-9).

Grandone does not teach processing at sample arranged on a slide, as shown in claims 258 and 283. Reinhardt teaches slide processing operations (Abstract). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the analyzer, as taught by Grandone, to include slide processing, as taught by Reinhardt, because then slides would have been processed in a consistent manner with high throughput (par. 9).

Grandone does not teach connecting remotely to a laboratory information system, as shown in claims 259 and 284. Madden teaches using a network to transfer sample results to a database that is accessible to remote users (pars. 19, 30 and 32). The ability to transmit the data requires a computer or information system. It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the analyzer, as taught by Grandone, to include a remote network connection for transferring data, as taught by Madden, because then analysis of results by other professionals would have been facilitated (Madden, pars. 2-9).

With regard to an automated sample processing system using robotic sample process functions and scheduling a plurality of sample process operations, as shown in claims 262 and 287, Grandone teaches a biological sample analyzer with robotic pipette-booms and scheduling sample operations (col. 5, line 66 - col. 6, line 36; col. 7, lines 36-58; col. 10, lines 18-53). With regard to capturing and storing important details

of process operations, as shown in claims 262 and 287, Grandone teaches outputting

data analysis results to data storage (col. 7, lines 40-58). With regard to a plurality of

scheduled sample process operations, as shown in claims 262 and 287, Grandone

teaches more than one scheduled operation (col. 10, line 18 - col. 11, line 10). With

regard to accepting a prompt from a user to display important details and providing

information to at least one person, as shown in claims 262 and 287, Grandone teaches

allowing an user to enter a load list for samples and operations to be performed (col. 9,

lines 3-22; col. 7, lines 40-58).

Grandone does not teach storing details as unmanipulatable, as shown in claims

262 and 287. Madden teaches storing data as "read-only" (par. 27). It would have

been obvious to one of ordinary skill in the art at the time the invention was made to

modify the analyzer, as taught by Grandone, to store data in "read-only" format, as

taught by Madden, because then data would not have been accidentally when being

viewed.

Grandone does not teach processing at sample arranged on a slide, as shown in

claims 262 and 287. Reinhardt teaches slide processing operations (Abstract). It would

have been obvious to one of ordinary skill in the art at the time the invention was made

to modify the analyzer, as taught by Grandone, to include slide processing, as taught by

Reinhardt, because then slides would have been processed in a consistent manner with

high throughput (par. 9).

4.   Claims 260 and 285 are rejected under 35 U.S.C. 103(a) as being unpatentable

over Grandone in view of Madden and Reinhardt as applied to claims 258 and 283

above, and further in view of US Patent Application Publication 2004/0220745 to
Hosomi (Hosomi).

Grandone, Madden and Reinhardt teach all the limitations of claim 258 upon
which claim 260 depends and claim 283 upon which claim 285 depends. Grandone,
Madden and Reinhardt do not teach remote access to a manufacturer, supplier or
maintenance personnel locations, as shown in claims 260 and 285. Hosomi teaches a
network connection to an instrument supplier (pars. 25 and 32). It would have been
obvious to one of ordinary skill in the art at the time the invention was made to modify
the analyzer combination, as taught by Grandone, Madden and Reinhardt, to include a
remote connection a manufacturer and supplier such as a instrument provider, as
taught by Hosomi, because then supplies would have been replaced more quickly
(Hosomi, pars. 3, 4).

5.   Claims 263, 268, 270, 288, 293 and 295 are rejected under 35 U.S.C. 103(a) as
being unpatentable over Grandone in view of Reinhardt.

With regard to an automated sample processing system using robotic sample
process functions and scheduling a plurality of sample process operations, as shown in
claims 263 and 288, Grandone teaches a biological sample analyzer with robotic
pipette-booms and scheduling sample operations (col. 5, line 66 - col. 6, line 36; col. 7,
lines 36-58; col. 10, lines 18-53). With regard to capturing and storing important details
of process operations, as shown in claims 263 and 288, Grandone teaches outputting
data analysis results to data storage (col. 7, lines 40-58). With regard to a plurality of
scheduled sample process operations, as shown in claims 263 and 288, Grandone

teaches more than one scheduled operation (col. 10, line 18 - col. 11, line 10). With regard to accepting a prompt from a user to display important details and providing information to at least one person, as shown in claims 263 and 288, Grandone teaches allowing an user to enter a load list for samples and operations to be performed (col. 9, lines 3-22; col. 7, lines 40-58).

Grandone does not teach processing at sample arranged on a slide, as shown in claims 263 and 288. Reinhardt teaches slide processing operations (Abstract). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the analyzer, as taught by Grandone, to include slide processing, as taught by Reinhardt, because then slides would have been processed in a consistent manner with high throughput (par. 9).

With regard to storing individual operation data, as shown in claims 268 and 293, Grandone teaches storing results (col. 7, lines 40-58).

With regard to displaying at least a portion of the information, as shown in claims 270 and 295, Grandone teaches printing test results (col. 7, lines 40-58).

6.   Claims 264 and 289 rejected under 35 U.S.C. 103(a) as being unpatentable over Grandone in view of Reinhardt, as applied to claims 263 and 288 above, and further in view of US Patent Application Publication 2003/0032048 to Kim et al. (Kim).

Grandone and Reinhardt teach all the limitations of claim 263 upon which claim 264 depends and claim 288 upon which claim 289 depends. Grandone and Reinhardt do not teach sequential playback capability, as shown in claims 264 and 289. Kim teaches playing back the movement in a cell migration system (par. 215, 216). It would

have been obvious to one of ordinary skill in the art at the time the invention was made

to modify the analyzer, as taught by Grandone, to include playback, as taught by Kim,

because then analyzer steps could have been observed in real-time at a later time.

7.   Claims 265-267 and 290-292 are rejected under 35 U.S.C. 103(a) as being

unpatentable over Grandone in view of Reinhardt and Kim as applied to claims 264 and

289 above, and further in view of US Patent No. 4,139,867 to Foerster (Foerster).

Grandone, Reinhardt and Kim teach all the limitations of claim 264 upon which

claims 265-267 depend and claim 289 upon which claims 290-292 depend. Grandone,

Reinhardt and Kim do not teach altering the speed of playback, as shown in claims 265-

267 and 290-292. Foerster teaches altering the speed of video playback (Abstract). It

would have been obvious to one of ordinary skill in the art at the time the invention was

made to modify the analyzer combination, as taught by Grandone, Reinhardt and Kim,

to include playback with altered speed, as taught by Foerster, because then the user

would have been able to slow down the playback for better observation.

8.   Claims 269, 271, 294 and 296 are rejected under 35 U.S.C. 103(a) as being

unpatentable over Grandone in view of Reinhardt as applied to claims 263 and 288

above, and further in view of Madden.

Grandone and Reinhardt teach all the limitations of claim 263 upon which claim

269 depends and claim 288 upon which claim 294 depends. Grandone and Reinhardt

do not teach creating the specific records shown in claims 269 and 294. Madden

teaches storing data as "read-only" (par. 27). It would have been obvious to one of

ordinary skill in the art at the time the invention was made to modify the analyzer

combination, as taught by Grandone and Reinhardt, to store data in "read-only" format, as taught by Madden, because then data would not have been accidentally when being viewed.

Grandone and Reinhardt teach all the limitations of claim 270 upon which claim 271 depends and claim 295 upon which claim 296 depends. Grandone and Reinhardt do not teach displaying information specifically as shown in claims 271 and 296. Madden teaches remotely displaying information (pars. 19, 30). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the analyzer combination, as taught by Grandone and Reinhardt, to include a remote network connection for transferring data, as taught by Madden, because then analysis of results by other professionals would have been facilitated (Madden, pars. 2-9).

9.   Claims 272, 273, 297 and 298 are rejected under 35 U.S.C. 103(a) as being unpatentable over Grandone in view of Madden and Reinhardt as applied to claims 271 and 296 above, and further in view of Kim.

Grandone, Madden and Reinhardt teach all the limitations of claim 271 upon which claims 272 and 273 depend and claim 296 upon which claims 297 and 298 depend. Further with regard to a plurality of automated slide stainers and connecting the stainers, as shown in claims 273 and 298, Madden teaches a network for use with staining equipment (pars. 30-33). Grandone, Madden and Reinhardt do not teach real time displaying of individual slide log data, as shown in claims 272 and 297. Kim teaches real-time playback of cell migration movement (par. 215). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify

the analyzer combination, as taught by Grandone, Madden and Reinhardt, to include

playback, as taught by Kim, because then analyzer steps could have been observed in

real-time at a later time.

Allowable Subject Matter

10.   Claims 249-251, 261, 274-276 and 286 are allowed.

11.   The following is a statement of reasons for the indication of allowable subject

matter: The primary reason for the allowance of claims 249-251 and 274-276 is the

inclusion of limitations for replenishing the replenishable supply in real-time concurrently

with sample-processing, as discussed in applicant's remarks, filed 13 March 2007 on

pages 16 and 17. It is this limitation found in claims 249-251 and 274-276 that makes

the claims allowable over the prior art of record.

The primary reason for the allowance of claims 261 and 286 is the inclusion of

limitations for storing individual robotic movement data, storing subject sample data and

storing type of protocol data, as shown in claims 261 and 286. It is these limitations

found in claims 261 and 286 but not found in the prior art of record that makes these

claims allowable over the prior art.

Response to Arguments

12.   Applicant's arguments filed 13 March 2007 have been fully considered but they

are not persuasive. Applicant's arguments with regard to processing biological samples

arranged on a slide are moot in view of new grounds of rejection.

With regard to claims 252-257 and 277-282, Applicant states that Damji does not disclose, teach or suggest monitoring information related to the processing of a biological sample arranged on a slide and monitoring historical or statistical reagent usage. Independent claims 252 and 277 are directed to monitoring historical usage information. There is no claim language for monitoring reagent usage. Damji teaches monitoring the historical usage of materials and allowing an user to order based on the historical information (par. 54). Applicant states that Damji relates to a different and remote technical field. It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the analyzer, as taught by Grandone, to include monitoring historical usage, as taught by Damji, because then supply chains would have been more efficient (Damji, pars. 2-4). More efficient supply chains would have been desirable in replenishing materials used in analyzers.

With regard to claims 258, 260, 283 and 285, Applicant states that Hosomi does not teach establishing a network for integrity and security purposes and accepting a prompt from a user to establish a remote access connection. Applicant states that Madden teaches away by teaching that the system may be implemented over an open network. However, teaching an alternative to a closed network, as discussed in paragraph 30 of Madden, does not teach away form a more secure closed network. In fact, Madden teaches using the Internet with appropriate safeguards (par. 30). And user initiates or prompts the storage of data using the network (Madden, pars. 30 and 32).

With regard to claims 264 and 289, Applicant states that Kim does not disclose recording sequential playback of automated robotic sample process functions sequencing through a plurality of sample processing operations. Claim 264 has limitations for sample processing, "wherein said step of providing information relative to said plurality of sample process operations to at least one person comprises the step of providing a sequential playback capability." The observation system taught in Kim provides sequential playback capability and meets the limitations of claims 264 and 289. Kim similarly meets the limitations of claims 272 and 297.
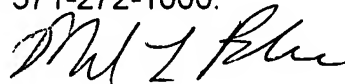
Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Manuel L. Barbee whose telephone number is 571-272-2212. The examiner can normally be reached on Monday-Friday from 9-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eliseo Ramos-Feliciano can be reached on 571-272-7925. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Manuel L. Barbee
Examiner
Art Unit 2857

mlb
December 23, 2006